

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P21651-PO	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/JP99/06590	International filing date (<i>day/month/year</i>) 25 November 1999 (25.11.99)	Priority date (<i>day/month/year</i>) 26 November 1998 (26.11.98)
International Patent Classification (IPC) or national classification and IPC G06F 13/28, 13/362		
Applicant MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 3 sheets, including this cover sheet.

☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of _____ sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 16 June 2000 (16.06.00)	Date of completion of this report 06 March 2001 (06.03.2001)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP99/06590

I. Basis of the report

1. With regard to the **elements** of the international application:*

- ☒ the international application as originally filed
- ☐ the description:
pages _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____
- ☐ the claims:
pages _____, as originally filed
pages _____, as amended (together with any statement under Article 19
pages _____, filed with the demand
pages _____, filed with the letter of _____
- ☐ the drawings:
pages _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____
- ☐ the sequence listing part of the description:
pages _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/fig _____

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP99/06590

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. Statement**

Novelty (N)	Claims	1-9	YES
	Claims		NO
Inventive step (IS)	Claims		YES
	Claims	1-9	NO
Industrial applicability (IA)	Claims	1-9	YES
	Claims		NO

2. Citations and explanations

Document 1: JP, 5-158864, A (Hitachi Cable, Ltd.), 25 June 1993 (25.06.93)
Document 2: JP, 11-143812, A (Matsushita Electric Ind. Co., Ltd.), 28 May 1999 (28.05.99)
Document 3: JP, 4-2768456, A (NEC Corp.), 1 October 1992 (01.10.92)
Document 4: JP, 8-307628, A (Sanyo Electric Co., Ltd.), 22 November 1996 (22.11.96)
Document 5: JP, 8-36542, A (NEC Eng., Ltd.), 6 February 1996 (06.02.96)
Document 6: JP, 5-204831, A (Mitsubishi Electric Corp.), 13 August 1993 (13.08.93)
Document 7: JP, 6-110825, A (NEC Corp.), 22 April 1994 (22.04.94)
Document 8: JP, 8-137780, A (Ricoh Company, Ltd.), 31 May 1996 (31.05.96)
Document 9: JP, 1-193959, A (Toshiba Corp.), 3 August 1989 (03.08.89)
Document 10: JP, 8-249269, A (Oki Electric Industry Co., Ltd.), 27 September 1996 (27.09.96)
Document 11: JP, 9-91247, A (NEC Eng., Ltd.), 4 April 1997 (04.04.97)

Claims 1 to 3

Documents 1 to 3 describe a technology that executes a periodic DMA transmission in divided bursts and transmits other data during the periods when the DMA transmission is interrupted. Conducting DMA transmission is common practice in image processing devices and one skilled in the art could have easily arrived at the arrangement described in the claims.

Claim 4

Document 4 describes a line detection means. One skilled in the art could have easily arrived at an arrangement in which each line is detected during data transmission.

Claims 5 and 6

Documents 5 and 6 describe a technology that temporarily saves data when the transmission is interrupted. Documents 7 and 8 describe a technology that reserves the next data transmission during a transmission.

Claims 7 and 8

Document 9 describes a technology that controls so as not to acknowledge the same class of access successively. One skilled in the art could have easily arrived at an arrangement in which the class of data is determined and data other than a specific class of data is transmitted.

Claim 9

Documents 10 and 11 describe a bus system provided with a memory means that stores priority information in such a manner that the information can be rewritten.